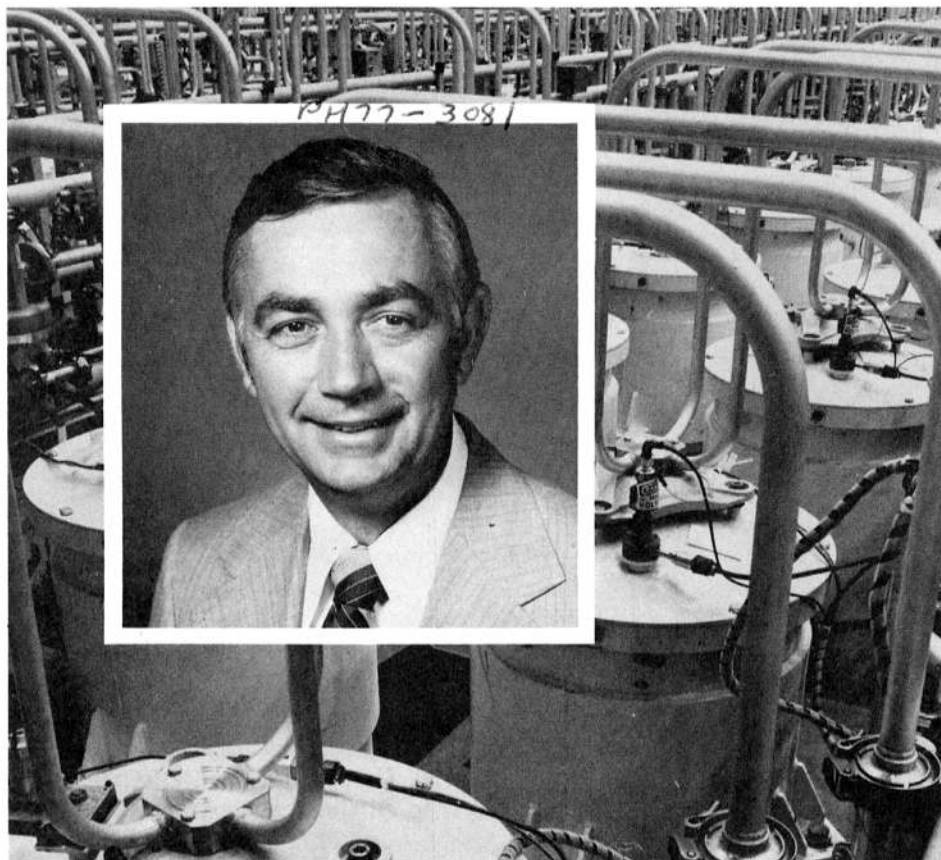


Waters gets Lawrence Award for centrifuge work



Dean A. Waters, a pioneer in the gas and liquid centrifuge research and development program at ORGDP, has been named one of the five recipients of the Ernest O. Lawrence Memorial Award. He receives his award at a special Department of Energy (DOE) ceremony today in the Roosevelt Room at the White House. Award winners receive a citation and \$5,000.

The Lawrence Award, established in 1959, perpetuates the memory of the late Ernest O. Lawrence, inventor of the cyclotron, and director of two laboratories which bear his name, at Berkeley and Livermore. The award is given for recent, especially meritorious contributions to the development, use or control of atomic energy in areas of all sciences related to atomic energy, including medicine and engineering.

Waters, who is deputy director of Union Carbide's Separations Systems Division at ORGDP, was cited, "For his leadership and engineering inventiveness in the development of gas centrifuge systems for the

enrichment of uranium, including the development of end caps, suspension systems, and supercritical modes of operation, and the introduction of improved materials and fabrication procedures."

Upon notification of the award Waters said, "I believe that this is an honor that has been given to the centrifuge program rather than an individual recognition of my part in it. The progress the United States has made in this technology is the result of the excellent team spirit, talent and outstanding contributions of many individuals in Union Carbide, at the AiResearch Division of the Garrett Corporation and the University of Virginia for the past 18 years. This effort has brought U. S. centrifuge technology from infancy to commercial realization."

Waters, a native of Little Silver, N. J., received a bachelor of mechanical engineering degree from Yale in 1957 and a year later a bachelor of science degree in industrial administration. He received a master of science degree in nuclear engineering from North Carolina State University in 1960.

He then joined Union Carbide where for the next five years he conducted basic research and development work for the centrifuge program. Waters developed centrifuge components and conducted research on suspension

(Please see page 8)

NUCLEAR DIVISION NEWS

a newspaper for employees of the nuclear division • union carbide corporation



Vol. 9/No. 9 April 27, 1978

Family Day activities open to retirees, contractors

Division representatives have planned Family Day for Saturday, May 6, from 10 a.m. to 4 p.m. at ORNL facilities at both X-10 and Y-12 locations. Families and friends of Nuclear Division employees, DOE employees and DOE contractors will have the opportunity to familiarize themselves with the Laboratory through demonstrations, exhibits, displays and guided tours.

For the first time in Family Day history, Nuclear Division retirees will be able to attend the event. Retirees will be admitted by displaying either a Union Carbide identification card or some other form of personal identification. Current employees, however, must display their badges.

Employees wishing to bring family members who are not U.S. citizens must pre-register them with their division offices no later than Tuesday, May 2. Forms are available through Family Day division representatives.

Entry into the plants will be through the East and West Portals at ORNL and through the East and Biology Portals at Y-12. Employees must register all guests at these portals. Advance registration is necessary only for non-U.S. citizens.

Children are invited to attend Family Day, but parents should remember that no child care facilities will be provided.

Among the highlights to be featured at Y-12 include:

- A test facility demonstration simulating aspects of the most severe hypothetical Liquid Metal Fast Breeder Reactor (LMFBR) accident
- Visitors vs. computers in computer games
- Laboratory experiments testing various materials and structures at high temperatures

- Displays of magnetics, plasma theory, and energetic particle injection

Featured highlights at X-10 include:

- Blood pressure checks for visitors
- Demonstration of a computer-controlled centrifugal fast analyzer; which performs clinical analysis of blood samples for disease diagnosis
- Demonstration of automatic typewriters (take home a Snoopy picture)
- Displays of a scanning electro microscope, cigarette tobacco smoke studies and cigarette smoking machines
- Tic-tac-toe computer games and free computer art work to take home
- Experiments in chemistry: i.e., seeing oil and water mix; watching colored water become clear through pollution analysis; and seeing scientists generate light through chemistry
- Display of new method for preparing nuclear reactor fuel
- Demonstration of a new bioreactor for cleaning process waste water
- A multi-media show and tour at the new Environmental Sciences Laboratory



A 22-ton nuclear fuel shipping cask is poised at the 30-foot level prior to its drop onto an unyielding, reinforced concrete and steel surface. The semi-fisheye photo distorts the shape of the four 320-foot towers of the Tower Shielding Facility. Dick Seagren (in plaid jacket), manager of ORNL's cask testing program, speaks to a member of the press before the drop. Approximately 70 individuals witnessed the first in a series of drop tests on this cask.

5-283-3



Jenny Schnuck, PGDP
Metallurgical Engineering and Inspection

179756



Barbara Bowers, Y-12
Medical

PH 78-1415



Sheila Thornton, ORGDP
Financial Materials and Services

1594-78



Rita Camp, ORNL
Chemical Technology

Secretaries week. . .

Recognizes various job tasks

Typist, filist, clerk, receptionist. . . all secretaries perform these stereotype roles part of the time. But many people don't realize that a secretary is many times a translator, a consultant and a human relations specialist.

The theme of this year's Secretaries Week, "A Multiplicity of Rungs in the Secretarial Ladder: Perception, Professionalism, Performance, Projection," highlights the various roles and responsibilities a secretary fills.

Kicking off the April 23-29 week of activities is the Tennessee Division meeting of the National Secretaries Association (NSA) in Gatlinburg, May 19-20. Sponsored by the Oak Ridge Chapter, the program will feature seminars, officer installations and a breakfast address by Herman Postma, director of ORNL.

All Oak Ridge area secretaries are invited to an "Early Bird Breakfast Buffet," on April 26 from 6:30 to 8 a.m. at the Royal Scotsman Inn. Sponsored by the Oak Ridge NSA Chapter, tickets are \$2.50 and can be obtained from Sandra Vaughan, extension 3-7709; Anne Caylor, 3-6600; or Helen Light, 3-9651.

5283-7



Marie Johnson, PGDP
Finance and Budget

Lindy Norris, ORNL
Central Management

179755



Jean Caldwell, Y-12
Fabrication

PH 78-1417



Sherry Norris, ORGDP
Gas Centrifuge Project



1593-78

Camera Club salon shows winning prints, slides

The Carbide Camera Club's annual salon is now on exhibit at the American Museum of Atomic Energy where it will remain through Sunday, April 30. On display are color slides and color and black and white prints. Slide presentations will be made each Sunday at 1 and 3 p.m. and Saturday at 2 p.m. The prints may be viewed during regular museum hours, 9 a.m. to 5 p.m. There is no admission.

The annual salon is a competition judged by local accomplished amateur and professional photographers and artists. The criteria upon which the entries are judged include impact, composition, subject interest, staying power and technical quality.

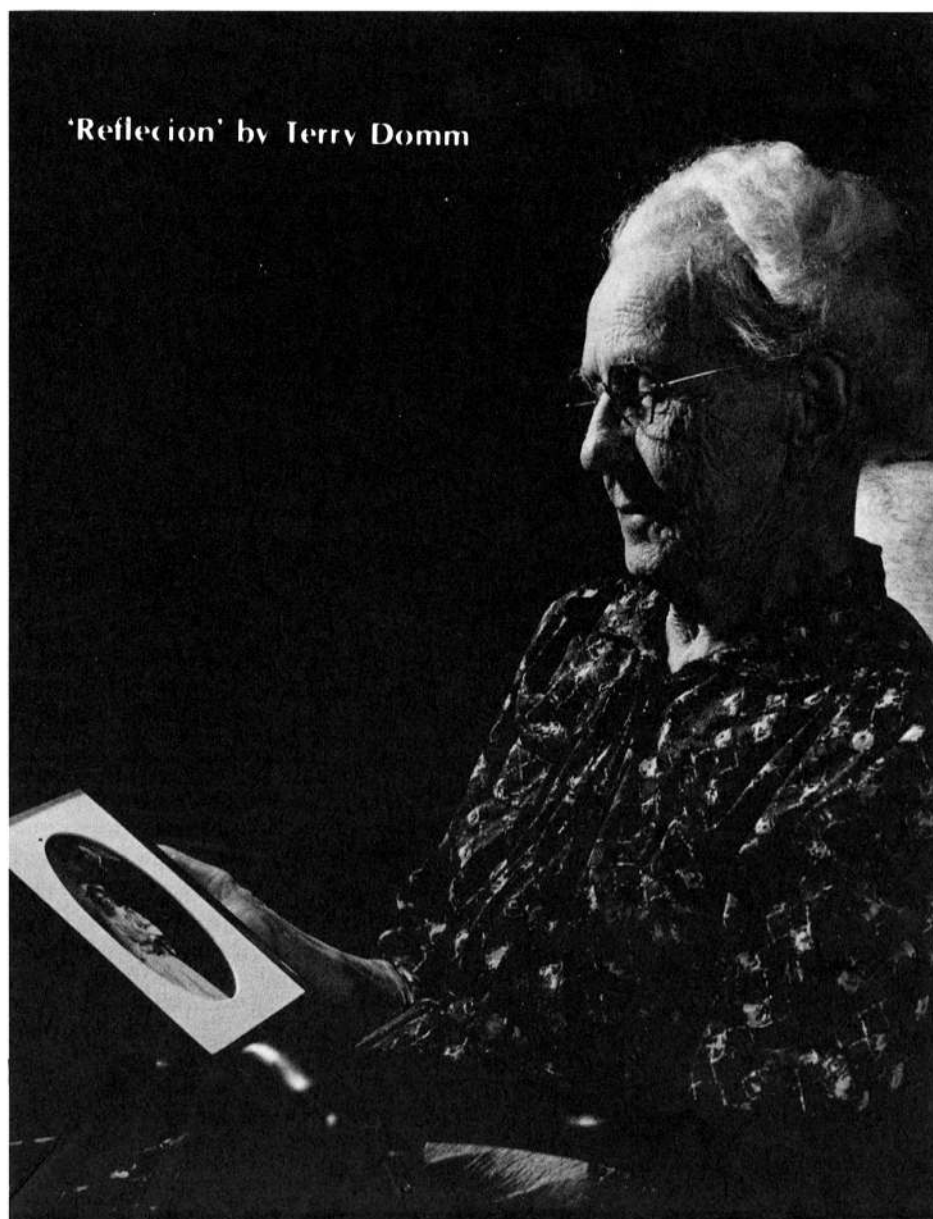
The 1978 awards are Terry C. Domm, "Reflection," best black and white print, and best of show; Marian C. Fox, "Reflections," best color print; and Dennis A. Wolf, "Grains of Light," best color slide. Domm also took first place in pictorial category, portraits in black and white. Harold G. Smith took first place in the still life group and William L. Russell took top honors in the open category.

In color prints, Darrell Northcutt took first award with "Splash;" Marian C. Fox, in portraits with "The Book;" J. R. Mains, in still life, for "Purple Dahlia;" with Fox also sweeping nature and pictorial, with "Wild Rose" and "Reflections."

Conrad Richter took top honors in the open category in color slides with "Monterey Fishing Boat." Harold G. Smith took two top awards, "Winter Leaves" in still life, and "Boy in Hammock" in portraits. Andy Butler took top awards for "Jefferson" in the pictorial category.

Early in 1946, shortly following the removal of the ban on cameras in the Oak Ridge area, a group of employees at the Oak Ridge Y-12 Plant organized a camera club. This easily makes the Carbide Camera Club one of the oldest organizations in the area still in existence. Only three weeks after Union Carbide assumed operations at Y-12, the Carbide Camera Club was established.

The next regular meeting of the club is Tuesday, May 19 at 7:30 p.m. at Cheyenne Hall.



'Reflecion' by Terry Domm

safety scoreboard

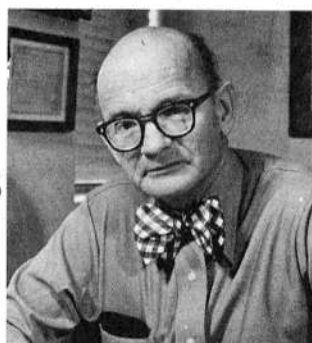
Time worked without a lost-time accident through April 20:

Paducah	272 Days	3,395,928 Man-Hours
ORGDP	14 Days	498,200 Man-Hours
Y-12 Plant	8 Days	226,000 Man-Hours
ORNL	95 Days	2,203,346 Man-Hours

medicine chest. . .

Gout treatment: possible side effects

by T. A. Lincoln, M.D.



(Editor's Note: Dr. Lincoln alternates his regular column with "The Medicine Chest," where he answers questions from employees concerning health in general. Questions are handled in strict confidence, as they are handled in our Question Box. Just address your question to "Medicine Chest," NUCLEAR DIVISION NEWS, Building 9704-2, Stop 20, Y-12, or call the news editor in your plant, and give him or her your question on the telephone.)

QUESTION: "Please inform me of the side effects from the use of Zyloprim and Benemid for the treatment of gout. Which of these two drugs would you recommend? Are there any other drugs which adequately treat gout? If so, what are their side effects?"

ANSWER: Ralph Waldo Emerson wrote that, "Nothing in nature is free, She extracts a price for everything." So it is with the medicines used for treating or preventing gout. They all have potential unpleasant or dangerous side effects, even though they are remarkably effective in accomplishing their primary objectives.

Leads to kidney failure

Acute attacks of gouty arthritis can be extremely painful. Patients with gout or those who have a chronically elevated uric acid level in the blood, may develop serious long-range complications in the kidney, skin and joints. The most dangerous is damage to the kidney, which can lead to kidney failure. Uric acid deposits in the skin, called tophi, can be ugly and drain a chalky white material. Damage to joints can sometimes be severe, causing large bone erosions with overhanging margins of calcium, producing a shell-like configuration.

In gout (a metabolic disease) too much uric acid is produced, too little

destroyed or too little excreted. In many cases, the defect is inherited. It also may be caused by medicines such as the thiazide diuretics commonly used to treat high blood pressure. Regardless of the cause of excess uric acid, difficulties occur when the crystals are deposited in and around the joints, the kidneys and the skin. Prevention of these deposits is obviously the logical goal of any early treatment program.

Drug treatments

- **Probenecid (Benemid)** works by greatly increasing the excretion of uric acid in the urine. Unfortunately, many patients develop kidney stone attacks because the large excretion of uric acid leads to the formation of uric acid stones. Occasionally, a rash will develop which will require the drug to be stopped. Probenecid interacts with several anti-inflammatory drugs, making them less effective in treating acute attacks of gout, should they occur.

- **Allopurinol (Zyloprim)** blocks the synthesis of uric acid. It is effective and extremely useful, but unfortunately can cause severe toxic reactions. Usually it is well tolerated and is especially useful in patients who develop kidney stones. Severe liver damage, inflammation of small and medium arteries called an arteritis, and skin rashes may occur. Cataract formation has been reported in a few patients taking the drug.

- **Sulfinpyrazone (Anturane)** promotes the excretion of uric acid like probenecid, so can cause kidney stones. It can cause stomach inflammation and aggravate peptic ulcers. A few cases of toxicity to the bone marrow have occurred.

Recently, it has been reported to reduce the likelihood of a repeat heart attack and a large study is underway to better determine its effectiveness for this purpose. In general, it is of relatively low toxicity.

- Acute attacks of gout can usually be fairly rapidly controlled with indomethacin (Indocin), phenylbutazone (Butazolidin, Azolid) or colchicine. Both of these have potential toxic side effects, but are ordinarily safe if taken properly during an acute attack.

Benefits worth risks?

Your personal physician has to decide whether the benefits from treatment are worth the risks. Of great importance is determining whether your gout is a side effect of some other drug that you are taking. If it is, discontinuance of that drug or substitution of another may be all that is necessary. Running any risk of severe and even potentially fatal toxic reactions to any gout drug is totally unjustified if the problem is due only to another drug. When kidney damage or a severe debilitating arthritis appears to be a likely long-range effect, cautious treatment is definitely indicated.

In any long-range treatment, it is absolutely essential that your physician see you every few months to be sure no toxicity is developing. The visit may be brief and only a few lab tests performed, but it is to protect you. It is **not** being done just to enrich your physician! Don't ever take any medicine over long periods of time without reevaluation by your physician. Severe toxic reactions are rare, but they may be fatal, so **be careful!**

Promoted to department head

Gerald B. "Jerry" Young, acting head of ORNL's Electrical, Air Conditioning, and Heating Services Department, Plant and Equipment Division, has been named department head.

A native of Holly Hill, S.C., Young received his bachelor's degree in electrical engineering from the University of South Carolina and his master's in business administration from the University of Tennessee. He is a U.S. Navy veteran.

Young joined the Nuclear Division in 1957 as a process engineer in the Production Division at ORGDP and moved to the Engineering Division as an electrical engineer in 1962. Two years later, he transferred to ORNL as an electrical operations and maintenance supervisor in the Plant and Equipment Division.

Young is chairman of his division's Metrication Task Force and a member



Gerald B. Young

of the Institute of Electrical and Electronic Engineers.

He and his wife, Roylyn, have three children: Lauren, Wesley and Dana. They live at 126 Monticello Road, Oak Ridge.

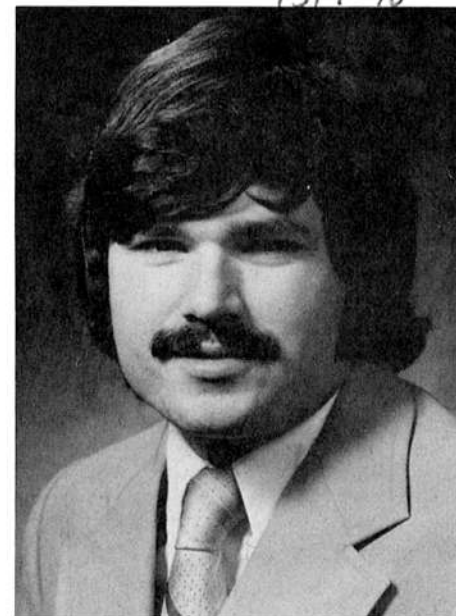
Named to environmental post

Thomas W. Oakes has been appointed Environmental Coordinator for ORNL.

In addition to overall coordination of the Laboratory's pollution abatement programs, Oakes' new responsibilities include reviewing the design and construction of environmental protection control equipment; maintaining records and preparing environmental monitoring reports; and identifying areas where development work, additional monitoring programs and changes in waste disposal procedures are required.

Oakes will continue as head of the environmental surveillance and evaluation section of ORNL's Industrial Safety and Applied Health Physics Division, a position he has held since May, 1977.

A native of Danville, Va., Oakes received bachelor's and master's degrees in nuclear science from Virginia Polytechnic Institute and State University. He participated in a health physics training program sponsored by Oak Ridge Associated Universities in 1973, and was assigned to ORNL.



Thomas W. Oakes

Before joining the former Health Physics Division in 1975, Oakes was a radiation engineer for Babcock and Wilcox Company, where he participated in several engineering and nuclear power plant operation training programs. He currently is working toward his doctorate degree in civil/environmental engineering at the University of Tennessee.

anniversaries...

Y-12 PLANT 35 YEARS



Tunnell

William C. Tunnell, Y-12 Engineering, is a native of Anderson County, springing from pioneer settlers in the area. A graduate of the University of Tennessee, he joined the Manhattan Project May 2, 1943, and worked briefly in Berkeley, Calif., transferring to Oak Ridge later that year. For eight years, Tunnell served on the Oak Ridge City Council. He and his wife, Maisie, live at 104 Ditman Lane.

30 YEARS

G. Ruth Lassiter, Executive Offices; Roger P. Brotherton, Beta 2 Chemistry; and Walter L. Howard Jr., Engineering.

25 YEARS

Richard T. Wyrick, Taskel L. Dishman, Malcolm W. Oldham, James R. Sheehan, Jack L. Armes, Rhea V. Harrell, Cecil S. Brown, Clarence E. Miller, Charles W. Stegall, James W. Dowell Jr., Ralph B. Zimmerman, Clifton E. Stooksbury and Earl Daugherty.

20 YEARS

Kenneth D. Baker and William J. Hulsey.

ORNL

30 YEARS

Jerry D. Hutchins, Operations; Ruby L. Burrell, Solid State; Evelyn M. Hall, Health; Vaughn L. Huskey, Plant and Equipment; Julian H. Hackney, Analytical Chemistry; and Samuel R. Buxton, Chemical Technology.

25 YEARS

Willie A. McCloud, Azolene G. Vest, Lewis O. Emerson, Joe L. Malone and Floyd S. Adams.

20 YEARS

Kenneth E. Kingsbury Sr.

ORGDP

30 YEARS

Blanche P. Thompson, Purchasing; and Wilma R. Edwards, Accounts Payable.

25 YEARS

John D. Hart, Bobby L. Powers, Emmerson L. Arnold, Evelyn R. Cummings, Frederick E. Walton and Mary J. Browning.

20 YEARS

Henry H. King and Edsel F. Beasley.

NUCLEAR DIVISION NEWS

UNION CARBIDE CORPORATION
NUCLEAR DIVISION
Office
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PADUCAH

Darlene McPherson, Bell 208



PLAN BOND DRIVE—The Nuclear Division's 1978 Savings Bond drive will begin in the four plants May 8. The committee recently met to coordinate efforts for upping payroll deduction participation. From left are Bill Graves, ORNL; Velva Blayney, Paducah; Bob Sherlin, general chairman; Frank McDonald, Y-12; Larry McLaughlin, Y-12 chairman; Joyce Packer, General Staff; and Roger F. Hibbs, President of the Nuclear Division. Other subcommittee members include Kaye Johnson, administrative assistant; Betty Jo Jones, secretary; and Gerry Johnson, general information coordinator and reporting.

Joins Paducah medical staff



Dr. James E. Phillips has joined Paducah's medical staff.

A native of Rutherford County, N.C., he received his bachelor's degree from Limestone College, Gaffney, S. C; and his M.D. at the University of North Carolina in 1974. He practiced there before joining Union Carbide.

Dr. Phillips and his wife, Betty, live on Cleary Drive, Paducah.

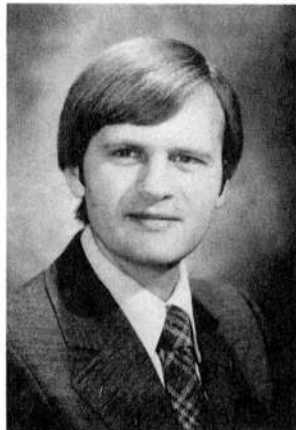
Three promoted at Paducah



Grief



Riepe



Wright

Three promotions have been announced at the Paducah Plant. Bobby Grief has been named A Shift cascade coordinator; Robert C. Riepe a department superintendent in Cascade Operations; and Paul D. Wright as manager of production planning in Technical Services.

Grief, a 26-year Union Carbide veteran, is a native of McCracken County and was employed by Bowes, Inc. before coming to the Paducah Plant. He has his wife, Mary Sue, live

on Route 2, West Paducah. They have two children, Deborah and Michael.

Riepe came to Paducah in August, 1969, following graduation from Southern Illinois University where he received an M.S. in mechanical engineering. He is president of the McCracken County Unit of the American Cancer Society. He and his wife, Jan, live on Timothy Drive, Paducah, with their two daughters, Renee and Suzanne.

Wright earned B.S. and M.S. degrees in mechanical engineering from the University of Kentucky. Prior to joining Union Carbide in 1975, he was employed by General Electric. He is a certified professional engineer, and is a member of Tau Beta Pi and Pi Tau Sigma. He and his wife, Pamela, live on Parkway Court, Mayfield, Ky.

wanted...



ORGDP

RIDE WANTED OR JOIN CAR POOL (two man) from Ball Road, Knox County, to Portal 5, "D" Shift. Jack McKinney, plant extension 3-3476, home phone 690-1888.

VAN POOL RIDERS from Karns to any portal, 7:45-4:15 or 8-4 shift. Tom Lemons, plant phone 3-3291, home phone Karns 947-8959.

Y-12 PLANT

TWO RIDERS from Cumberland Estates area, via Oak Ridge Highway, to East, North or Central Portal, straight day. C. E. Spradlin, plant phone 3-7613, home phone Knoxville 584-7114.

TWO CAR POOL MEMBERS from Cumberland Estates area, West Knoxville, to East or North Portal, straight day. William D. Dietrich, plant phone 3-5415, home phone Knoxville 584-2233.

JOIN CAR POOL from La-Follette/Jacksboro area to West Portal, H shift. Ronnie Green, home phone LaFollette 562-0149.

Promotions told at Y-12 Plant



Chandler



Elliott



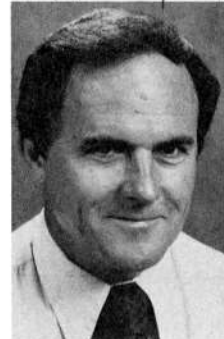
Moore



Ramsey



Rowell



Thacker



White

Seven recent promotions have been announced in the Y-12 Plant. Charles F. Chandler, Thomas E. Elliott, Brenton W. Moore, Reginald K. Rowell and Samuel F. White are new foremen in the Maintenance Division; William T. Thacker Jr. has been named a dispatching foreman in Product Engineering and Scheduling; and William E. Ramsey has been promoted to a stores foreman in Materials and Services.

Chandler is a native of Guntersville, Ala., but grew up in Oak Ridge. He joined Union Carbide in 1950.

Married to the former Dianne Gee, Chandler lives at Route 4, Walnut Lane, Clinton. The Chandlers have two children, Kathryn and Charles D.

Elliott is a native of Eau Claire, Wisc., and attended Wisconsin State University. He worked with RCA and North American Rockwell Corporation on the Apollo Program before joining Union Carbide in 1970.

He and his wife, the former Sandra Gomes, live at Robinson Drive, Loudon. They have two children, Stephanie and Monte.

Moore was born in Gadsden, Ala. and attended Gadsden State Junior

College, as well as Auburn University and the University of Tennessee.

He worked at the Anniston Army Depot before coming to Y-12 in 1970. Mrs. Moore is the former Mickey Wall. The Moores have two daughters, Margaret and Laura. They live at 141 Wade Lane, Oak Ridge.

Ramsey, a native of Rossville, Ga., joined Union Carbide in 1958 after working with Pride Oil Company.

Mrs. Ramsey is the former Jackie Needham. The Ramseys live at 106 East Magnolia Lane, Oak Ridge. They have two children, Donna and Mike.

Rowell was born in Woodville, N. H., and worked with the Civic Service Commission before coming to Y-12 in 1972.

He and his wife, the former Thela White, live at 604 Peachtree Lane, Kingston. They have a daughter, Trudi.

Thacker is a native of Windrock, and worked with General Electric before joining Y-12 in 1970.

Mrs. Thacker is the former Cynthia Moses, and the Thackers live at Route 3, Oliver Springs. They have three children, Linda, Donna and Bill.

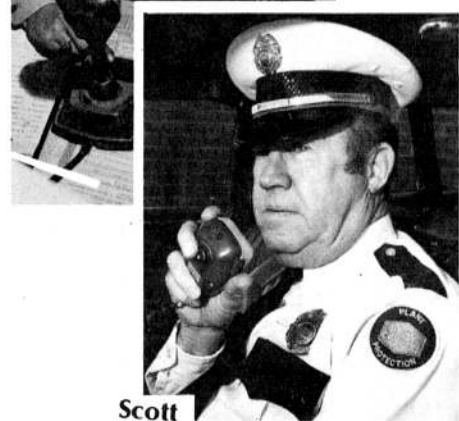
White was born in Perry County, Ky., and served in the U.S. Army before joining Union Carbide in 1970. He is a graduate of Roane State Community College and is currently attending the University of Tennessee.

He and his wife, the former Marilyn Kisiah, live at 108 Clarion Road, Oak Ridge.

ORNL Guard promotions



Stallings



Scott

The Laboratory Protection Division at ORNL has announced two more promotions—Clyde Scott and Deborah L. Stallings have been named guard captains.

Scott, a native of Danville, Va., has been a Carbider for 32 years, having joined the company after spending four years in the U. S. Navy. He and his wife, Gertrude, live at Route 2, Clinton. They have five children: Donna Jean, Carolyn Faye, Brenda Sue, Clyde Jr. and David Allen.

Stallings has been with Carbide for two years. She previously worked with security at McGhee-Tyson Airport and with the Tennessee State Department of Human Services in Knoxville.

A native of Knoxville, she has a B. S. degree in law enforcement from East Tennessee State University. Stallings, a member of the Tennessee Law Enforcement Officers Association, lives at 8044 Gleason Road, Knoxville.

Time for change in time, that is

It's time for a change...in time, that is.

And that change will come Sunday, April 30 at 2 a.m. when Oak Ridge area and Paducah folks will go on Daylight Saving Time.

Employees scheduled to work the midnight shift on April 29 will report to work on EST in Oak Ridge and CST in Paducah, and clock out on EDST and CDST respectively. Is that all clear?

In simple language, it means run your clock forward an hour at 2 a.m. Sunday, April 30.

recreationotes . . .

Carbide bowling

Y-12 C. . .

The Rounders have taken a 9-1/2 point lead over the Sunflowers in the "C" League. The Mini-Strikes, who were second, dropped to third.

Y-12 Classic. . .

The Eightballs have a four point lead this week over the Has Beens in the Classic League. John Bryan, of the Rebels, rolled the high scratch game and series with a 234/606. Jiggs Seivers, of the Apollo Five, won high handicap game and series rolling a 263/669.

K-25 Tuesday Men's. . .

The Tuesday Men's League completed their winter bowling season last week. The All-Stars came in first with 554.0 points over the City Slickers with 542.0 points. The All-Stars also won the season high series with 3170 and high game of 1150. Congratulations All-Stars!!!

K-25 Wednesday Men's. . .

The Protectors took their lead back last week over Sue's Sooners by one-half point in the Wednesday Men's League. Karl Rapp, of the Demons, won the weekly prize for high game with a 247. John Brown won the high series prize with a 625.

Western Plaza Mixed. . .

The Bowlerdash currently lead the league with a one-game advantage over the Roadrunners and Hi-Lo's, both tied for second. Down but not out are the Chargers and Four Eagles, who pose an equal threat to the top teams. They are only two and three games out respectively. Right now, it's anybody's bowling ball game.

ORGDP Women's. . .

The Uptowners hold their lead over the Payoffs this week in the Women's League. Donna Bell won "Bowler of the Week" rolling a 232-223-191 = 646 handicap series.

ORNL "A". . .

The "A" League is still led by the ORAU. They lead over the Zots by 14.5 points. DeBaker, of the Ten Pins, won the weekly prize for high series with handicap rolling a 665. Paul, also of the Ten Pins, won high scratch game with 226.

Carbide Shifters Mixed. . .

The Carbide Shifters completed their league last week with the 2+2 winning first. The Ups & Downs won second for this half. Ralph Stevens won season high scratch series with a 572. Bobbie Loving won the season high series for women with 565.

ORNL "C". . .

Congratulations go to the Alley Rads for winning both halves in the ORNL "C" League. The Beryls came in second, and Remkeys third. Croley, of the Remkeys, won high scratch game rolling a 214.

ORNL Ladies. . .

With only one more week to bowl, the Mousechasers still lead the Ladies League by 12 points. Georgia Gwinn, of the Mousechasers, won the weekly prize for high scratch game and series with 205/517.

Carbide Family Mixed. . .

The Oops continue to hold their lead over the Chokers this week by 3 points. C. R. Lively won the high scratch series for the men with a 561. Judy McBee won for the women rolling a 564.

Tee-Off Time Application for May 20, 1978

(Check Appropriate Plant)

- ☐ ORGDP—Wallace Hills
☐ Y-12—Dead Horse Lake
☐ ORNL—Whittle Springs



1. _____ Leader
2. _____ Phone _____
3. _____ Bldg. _____
4. _____ Tee-Time _____

COMPLETE AND RETURN TO THE Y-12 RECREATION OFFICE BUILDING 9711-5, MS-001

Entries must be received prior to drawing on May 17, 1978.

Tee-off times for all tournaments will be drawn on Wednesdays prior to each Saturday's tournament. Golfers are responsible for reserving their own carts by contacting the pro shop following drawing for tee-off times. Please call the Recreation Department, 3-5833, after 3 p.m., Wednesday for your time.

PADUCAH Swimming Instruction

EMPLOYEE'S NAME _____

Plant Address _____ Plant Ph. _____

Home Address _____

List student(s) Name: _____

Number in each class:

- ☐ Adult Beginners
☐ Teenage Beginners
☐ 11-12 Years
☐ 9-10 Years
☐ 6-8 Years
☐ m and Tot
☐ & under)

Please check one:
Dates:

- ☐ June 10 - July 1
☐ July 15 - Aug. 12
☐ Both

Instruction Times:

- ☐ 9:30 a.m.
☐ 10:00 a.m.

OPEN SWIMMING 10:30 - 11:30 a.m Noble Park

Mail to: Darlene McPherson, P.O. Box 1410
 Paducah, Ky. 42001

More bowling. . .

UCC Mixed League. . .

The Lickety Splits have a four point lead over the Wood Cutters in the U.C.C. Mixed League. Vicky Steward won high awards rolling a 503 scratch/604 handicap series.

A Shift barbecue. . .

Tuesday, May 16, 1978 is the date for the ORGDP A Shift Bar-B-Q which will be held at Carbide Park from 3 p.m. until 10 p.m.

The cost per person is \$2, with children under 10 years old free. The Bar-B-Q is being billed as "All You Can Eat." Games are planned and a door prize will be given.

Food will be served beginning at 7 p.m.

Skeet League...

The Carbide Skeet League had two winners from Y-12 and one from X-10 for the month of March. Alan VanHull from Y-12 won first, shooting a 49.156 with no penalties. Vernon Raaen of ORNL won second with a 48.644; and Jack Case of Y-12, won third with a 48.400.

PGDP golf scrabble. . .

The upcoming Carbide scrabble will be held at Lake Barclay on May 13. Anyone interested in playing may contact the Recreation Department (Bell 208) or any division golf representative.

Paducah swimming. . .

The 1978 PGDP swimming program will be kicked off June 10, at the Noble Park Pool. The dates for instructional sessions include June 10 through July 1 and July 15 through August 12. Carbiders and their families may sign up for either session or both sessions. Applications are available in this issue. Open swimming is scheduled for each Saturday except July 8 from 10:30 to 11:30 a.m.

Engineering picnic. . .

A date to mark on the calendar is Saturday, June 3, 1978 when the Engineering picnic will be held at Carbide Park.

Activities are scheduled to begin at 11 a.m. This year's theme is "Close Encounters of the Carbide Kind."

Entertainment and activities are being planned for the entire family.

Paducah golf. . .

The 1978 Ladies Golf League will begin June 12 and will be held on alternating Mondays through September 4. Any interested employee or spouse can contact Darlene McPherson in C-100 at Bell 208.

Paducah fishing. . .

The annual fishing contest is now in full swing and anglers all over the Paducah Plant are hauling in the season's fare. Crappie is the hot item from April 16 through May 30 as well as bass. Size-of-the-season spoonbill can be entered from May 1 through June 30 and bream is the prime catch from May 15 to June 30.

Savings Plan—Personal Investment Account

	Fixed Income Fund	UCC Stock	Equity Investment Fund
December 75	11.9880	58.7886	7.8231
December 76	13.0553	59.2723	8.8166
January 78	14.3033	39.4015	7.5433
February 78	14.4063	38.4966	7.5072
March 78	14.5090	39.4377	7.4310

Note: Fixed Income Fund unit values reflect interest additions to achieve the guaranteed effective annual interest rate of 8.85% for 1978. Union Carbide stock values are the average cost of stock purchased during the month plus brokerage charges. Equity Investment Fund unit values represent the month-end market value of securities held by the Fund. The price of each unit is determined by dividing the total value of the securities by the number of units in the Fund.

retirements. . .



Persa R. Bell
Health and Safety
Research, ORNL
32 years service



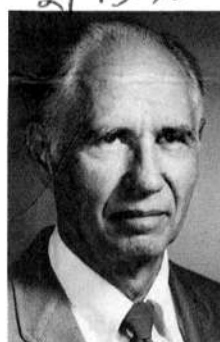
Wade W. Butcher
Y-12 Electrical
10 years service



Robert L. Cauble
General Engineering
ORNL
29 years service



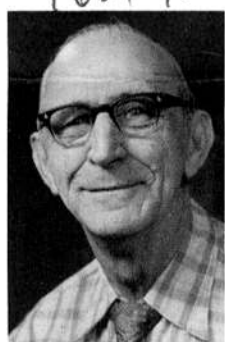
Osmer M. Garrett
Chemical Technology
ORNL
33 years service



Floyd M. Glass
Instrumentation and
Controls, ORNL
31 years service



Charles A. Harrison
Plant and Equipment
ORNL
34 years service



David C. Livingston
Instrumentation and
Controls, ORNL
14 years service



Fletcher L. Moore
Analytical Chemistry
ORNL
31 years service



Harold Pomfret
Y-12 Research Services
33 years service



Walter K. Russell
Operations, ORNL
29 years service



John M. Smith Jr.
Beta 2 Chemistry
Y-12
27 years service



Hall Trivett
Y-12 General Shops
27 years service



Robert L. Flake
Paducah Process
Maintenance
26 years service



Edward R. Ransom
Paducah Cascade
Operations
26 years service



Robert L. Scott
Paducah Plant Services
25 years service



Dwight L. Trentham
Paducah Cascade
Operations
33 years service



ENJOYING PARK—Donald E. Lane, Y-12 retiree, his wife, Thelma, at left, and his visiting sister, Mrs. J. Organo, enjoy a game of rummy at the Clark Center Recreation Park.

Park established to provide quality recreational facilities

The Clark Center Recreation Park was established to provide quality recreational facilities for Union Carbide, DOE, ORAU, and UT-CARL employees and their families.

Procedures and rules governing this facility were made to facilitate arrangement of group activities and to maintain the park in a manner that would ensure its use and enjoyment by large numbers of employees without interference of a few. Procedures and rules are shown nearby.

The park opens 5 a.m. to permit fishermen to embark on early morning trips; and other park facilities are open and supervised from 8 a.m. to 12 p.m. seven days a week. Swimming is allowed only when there is an authorized lifeguard on duty.

Violators of park rules and individuals interfering with employees who are properly using the park for pleasure should be noted and reported to the park supervisor. It would be helpful if a description of the offenders, along with a license number, if possible, could be obtained. The park supervisor will attempt to correct the situation. With this assistance, it is hoped the park can be maintained in a condition that will be attractive to all.

It's your park—enjoy it!

Following are some regulations established to maintain a pleasant environment for all at the Clark Center Recreation Park:

ELIGIBILITY

- Employees and families of Union Carbide, DOE, ORAU, and UT-CARL. (Car decals are available from the Recreation Office, extension 3-5833.)
- Guests of employees accompanied by the employee or a member of his family.
- Guests at plant, divisional or departmental picnics.

- Outside groups by special permit (Monday through Friday); picnics only.

PICNICS

- Groups of 10 or more should contact the Recreation Office for a written permit to insure adequate space.
- Present picnic permits to the park supervisor on duty.
- Picnickers please park in large parking lot across the road from picnic area and not in the boat ramp lot.
- Use hot coals or charcoal in the barbecue shelter.
- Please extinguish all fires and leave area clean.
- Picnic Area Number 1 is used by reservation only.
- Other picnic areas are open on a first come basis.
- Boaters may dock temporarily on shore lines for picnics.

SWIMMING

- Beach hours are from 11:30 a.m. to 7:30 p.m. (Official swimming begins June 12.)
- Swimmers must schedule their activities when a lifeguard is on duty.
- Swimmers must stay inside the cable stretched across the inlet.
- The float must not be overloaded for safety purposes.
- Alcoholic beverages are not allowed on the beach or in sunbathing areas.
- Swimmers must obey instructions from lifeguards.

BOATING

- Cars with boat trailers should not park along ramp area shoreline. Trailers must be parked in parking lot.
- Boats are required to have safety equipment as specified by state law.
- A three-mile-per-hour speed limit must be observed in the harbor.
- Employees are not permitted to dock boats overnight.
- Skiers must ski outside harbor signs to prevent wake in harbor and swimming areas.

question box...

If you have questions on company policy, write the Editor, **Nuclear Division News** (or telephone your question in, either to the editor, or to your plant contact). Space limitations may require some editing, but pertinent subject matter will not be omitted. Your name will not be used, and you will be given a personal answer if you so desire.

Y-12 signal light

QUESTION: The red light at Central Portal, Y-12, is cycled to flash starting at 4:45 p.m. I delay leaving until this time to avoid traffic, but find it difficult to turn west on Bear Creek as there are still many cars going toward Oak Ridge. Could this light not be adjusted to flash starting at 5 p.m.?

ANSWER: The traffic light at Central Portal can be set at 5 p.m.; however, it is programmed to change from a traffic control sequence to a flashing signal at 4:50 p.m. based on actual traffic counts conducted in March 1977. Plant population has remained fairly stable since that time.

Control times can be set with the existing equipment with a dependable accuracy of no better than plus or minus four minutes. Also, settings may occasionally change over a period of time. The system was last checked and adjusted on February 3, 1978.

Office cleaning

QUESTION: What is Company policy concerning cleaning offices? The offices that I work in at Y-12 are very dirty. The floor is not swept often enough, sometimes the trash overflows, ashtrays are not emptied, etc. These offices have not been dusted in almost a year that I have worked in this location. The windows need cleaning badly. The floor could use a good scrubbing. Is there anything that can be done to help this situation?

ANSWER: Y-12 management reports that janitorial services for offices vary somewhat depending on types of operations where offices may be located. Without knowing which office you have reference to, it is not possible for them to determine if you are receiving the scheduled services. If you have questions concerning the cleaning of your office, you should contact C. E. Maxwell or W. M. Williams Jr. at 3-5981.

wanted...



ORNL

CAR POOL MEMBERS from areas of West Outer, Waddell, Pennsylvania or Hillside, Oak Ridge, to East Portal, 8:15-4:45. Tom Burnett, plant phone 3-6939, home phone 483-1975.

RIDE ONLY from Woodland area, Pembroke Road, Oak Ridge, to East Portal straight days. Katherine Cook, plant phone 3-1703, home phone 482-5768.

CAR POOL MEMBER from West Haven Subdivision, Knoxville, to East Portal, 8-4:30. Debra Swaggerty, plant phone 3-1987, home phone 522-1834.

CAR POOL MEMBERS to share driving from West Hills or Deane Hill areas, Knoxville, to East Portal, 8-4:30. Chris Flanary or Mildred Gregg, plant phones 3-6366 and 3-1836, respectively.

CAR POOL from Emory Heights, Oak Ridge, to East Portal or East Parking area, 8:15-4:45. Gerry Scott, plant phone 3-1922, home phone 482-4533.

RIDER WANTED from Karns/Ball Camp area, Knoxville, to any portal, 8-4:30. Neil Griffith, plant phone 3-6422, home phone 690-1876.

RIDE from East Knoxville area, Holston Hills, to 4500 building parking lot, straight day. Randall Williams, home phone Knoxville 522-0660; or Faye Williams, plant phone 3-7768.

Lawrence award

(Continued from page 1)

systems and on critical speeds for various types of gas and liquid centrifuge designs.

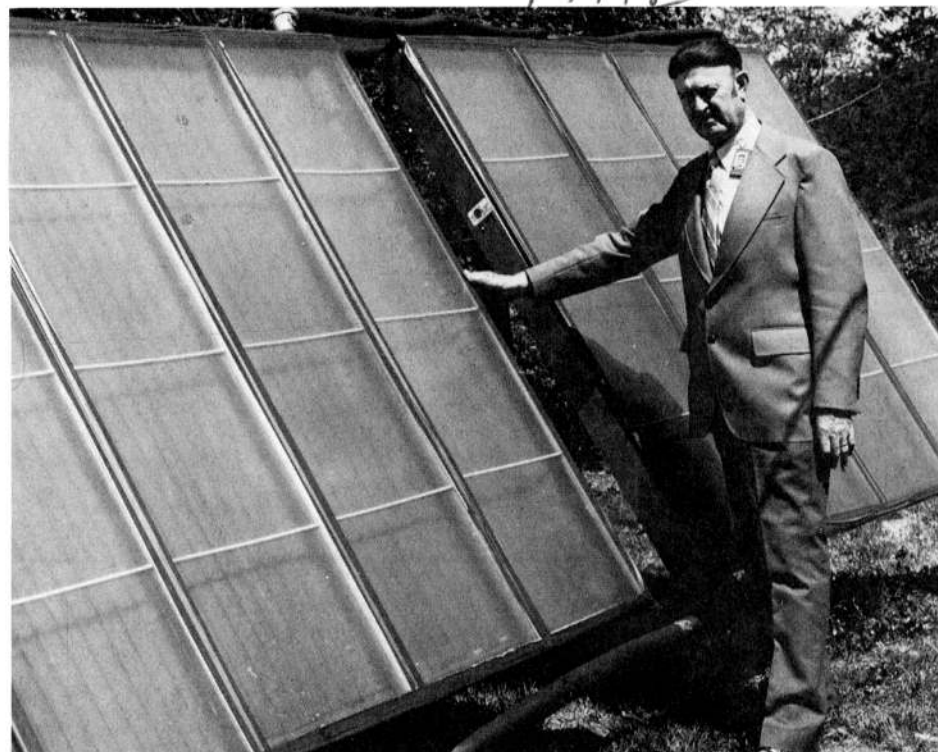
In 1965, he was named section head in charge of design, development and testing of liquid and gas centrifuges. He directed a team of engineers in the design and development of a commercially feasible liquid centrifuge. One centrifuge resulting from this work is the K-II zonal ultracentrifuge system. It is a high-capacity, continuous-flow centrifuge suitable for commercial applications such as large-scale purification of drugs and vaccines or research applications in biological laboratories.

From 1970 to 1977, Waters was superintendent of the Technology Development Department directing research aimed at developing production gas centrifuges, a post held prior to his recent position.

The DOE announcement said, "These improved component and manufacturing-assembly processes have been developed to the point that industrial production is now being established for machines that will be used in the Gas Centrifuge Enrichment Plant at Piketon, Ohio."

Waters lives at 109 Locust Lane, Oak Ridge, with his wife, Jacquelyn, and their three children; Christopher, Geoffrey and Heather.

Previous staff members who were awarded the Lawrence Award include Alvin M. Weinberg, Floyd L. Culler, Paul R. Vanstrum, John M. Googin, John B. Storer, James R. Weir and Chester R. Richmond.



SUN DAY—On Wednesday, May 3, there will be a national celebration of the use of solar energy. Nuclear Division employees will participate in a variety of activities planned on what has been designated "Sun Day." James M. Schreyer, Y-12 Development Division, will present talks on the practical uses of solar energy to Oak Ridge junior high and high school students. Schreyer uses the sun to provide space and water heating in his home and to heat an outdoor swimming pool. He is shown above with some of his "home-made" solar collectors.

division death...

Robert E. Sizemore, a supervisor in the ORNL Operations Division, died April 10 at his home, 5820 Willoyd Drive, Knoxville. A native of Middlesboro, Ky., he joined Union Carbide in 1950.

Mr. Sizemore had attended Lincoln Memorial University and Columbia College where he was a member of Sigma Alpha Epsilon fraternity. He was a World War II veteran.



Mr. Sizemore

Survivors include: his wife, Marjorie; sons, Michael Robert and Mark Ellis; mother, Mrs. Falmer Sizemore; two brothers; and two sisters.

Services were held at Rose Mortuary in Knoxville, with burial at Oak Ridge Memorial Park.

Corporate world of Union Carbide.

A NEW MEDICAL PRODUCTS DIVISION has been formed by Union Carbide Corporation as an indication of growing support for its medical-related products and systems. The corporation entered the clinical diagnostic systems field in 1972 with the introduction of a unique blood chemistry analyzer (developed in the Nuclear Division) that combines many of the automated features of much larger and more expensive systems in a more compact unit. The new division will have facilities in Rye, Pleasantville and Sterling Forest, N.Y.; Wallingford and Goshen, Conn.; and Norwood, Mass. Research and development is conducted at Tarrytown, N.Y.

next issue...

The next issue will be dated May 11. The deadline is May 3.



UNION CARBIDE CORPORATION

NUCLEAR DIVISION

P. O. BOX Y, OAK RIDGE, TENNESSEE 37830

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